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10

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,193	12/31/2003	Vivek Halwan	67,007-008; R-05324	9969
26096	7590	03/24/2005	EXAMINER	
CARLSON, GASKEY & OLDS, P.C. 400 WEST MAPLE ROAD SUITE 350 BIRMINGHAM, MI 48009				JIANG, CHEN WEN
ART UNIT		PAPER NUMBER		
				3744

DATE MAILED: 03/24/2005.

Please find below and/or attached an Office communication concerning this application or proceeding.

S/N

Office Action Summary	Application No.	Applicant(s)	
	10/749,193	HALWAN ET AL.	
	Examiner	Art Unit	
	Chen-Wen Jiang	3744	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 31 December 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-3,6,9,10,13-15 and 18 is/are rejected.
- 7) Claim(s) 4,5,7,8,11,12,16,17,19 and 20 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 31 December 2003 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received:

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1,9 and 13 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Takigawa et al. (U.S. Patent Number 5,619,859).

Takigawa et al. disclose an absorption refrigeration unit improving the response by adequate heating at the time of start-up operation. Referring to Fig. 1, the unit comprises a generator 3, a burner 31a, heating control means 32 and fuel control valve 32a. The first temperature detecting means 7 for detecting an inlet temperature T_t of the cooling water flowing through the cooling water-piping 23 arranged in the absorber 2 and second temperature detecting means 8 for detecting a temperature T_{gh} in the high temperature generator 3. The temperature detecting means 7,8 are connected with a controller 100 provided with the opening-degree adjusting means 32b. Opening of the fuel control valve 32a is adjusted by opening-degree adjusting means 32b on the basis of a value detected by cooling load detecting means 32b comprising cooled water outlet temperature detecting means 14 provided at an outlet of the water cooling pipe 11.

Art Unit: 3744

3. Claims 1,2,3,6,9,10,13,14,15 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Isumi et al. (JP 05248726).

Izumi et al. disclose an absorption refrigeration machine improving the starting performance. The machine comprises a generator 1, an evaporator 4, an absorber 5, controller 8, pipes, refrigerant circuit, heating control valve V2 and temperature sensors T1,T2,T3. The temperature sensor T2 measures the absorption temperature leaving the generator. The system uses a steam or warm water for the heat source of the regenerator. The available heat to the absorption system is inherent in the system since the valve opening has to be based on the available heat.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 6 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takigawa et al. (U.S. Patent Number 5,619,859) in view of Perry (U.S. Patent Number 4,665,709).

Takigawa et al. disclose the invention substantially as claimed. However, Takigawa et al. disclose burner as direct heat source. Perry discloses boiler with control 26 in the same field of endeavor for the purpose of providing heat for generator. Therefore, it would have been obvious

to one having ordinary skill in the art at the time the invention was made to provide the apparatus of Takigawa et al. with a controlled heat source in view of Perry so as to save energy.

Allowable Subject Matter

6. Claims 4,5,7,8,11,12,16,17,19 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chen-Wen Jiang whose telephone number is (571) 272-4809. The examiner can normally be reached on Tuesday-Friday from 8:00 to 6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise Esquivel can be reached on (571) 272-4808. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chen-Wen Jiang
Primary Examiner

